FIG. 1

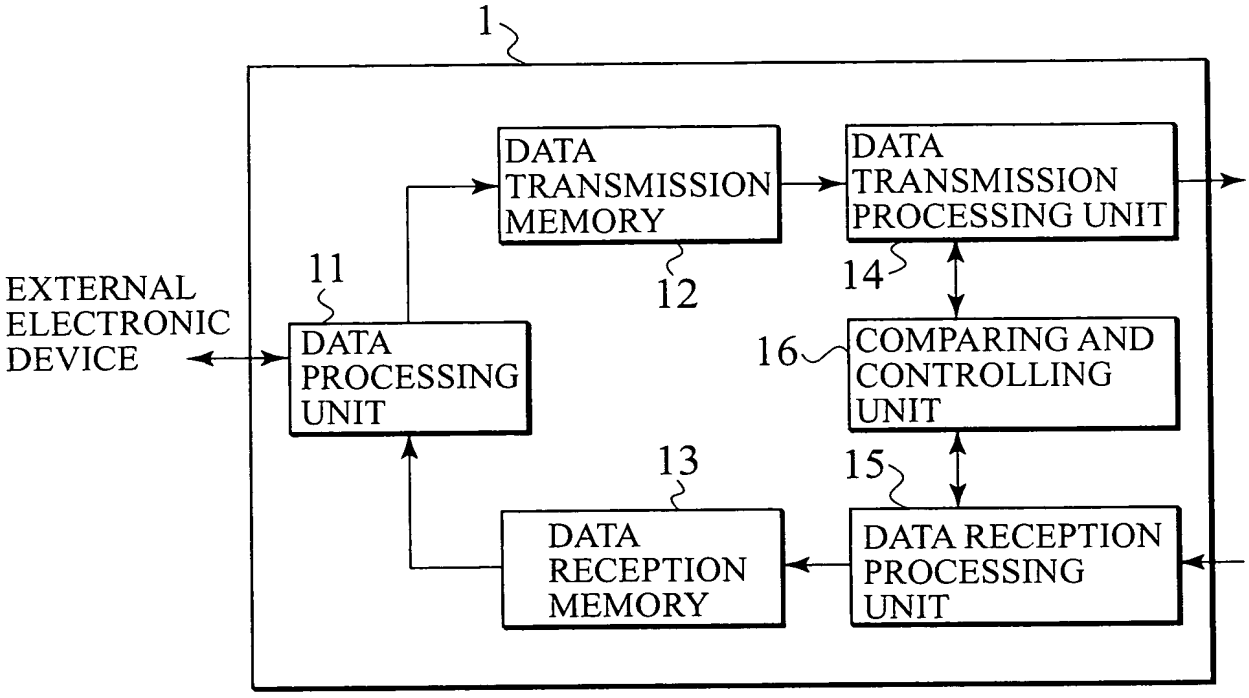

1
DATA TRANSMISSION MEMORY
DATA TRANSMISSION PROCESSING UNIT
12
14
11
EXTERNAL ELECTRONIC DEVICE
DATA PROCESSING UNIT
16
COMPARING AND CONTROLLING UNIT
13
15
DATA RECEPTION MEMORY
DATA RECEPTION PROCESSING UNIT

FIG. 2

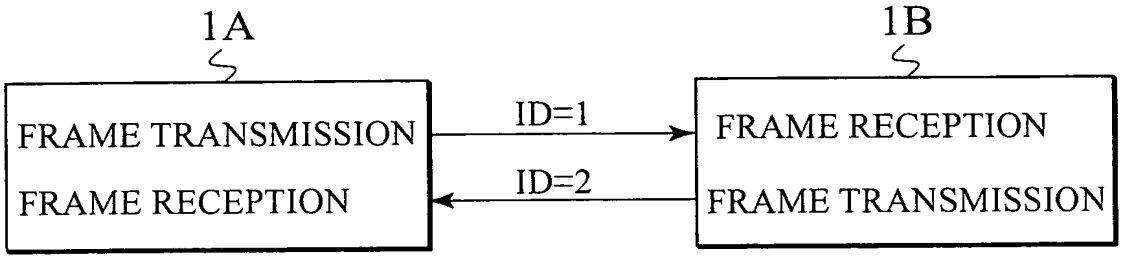

1A
1B
FRAME TRANSMISSION
FRAME RECEPTION
ID=1
ID=2
FRAME RECEPTION
FRAME TRANSMISSION

FIG. 3

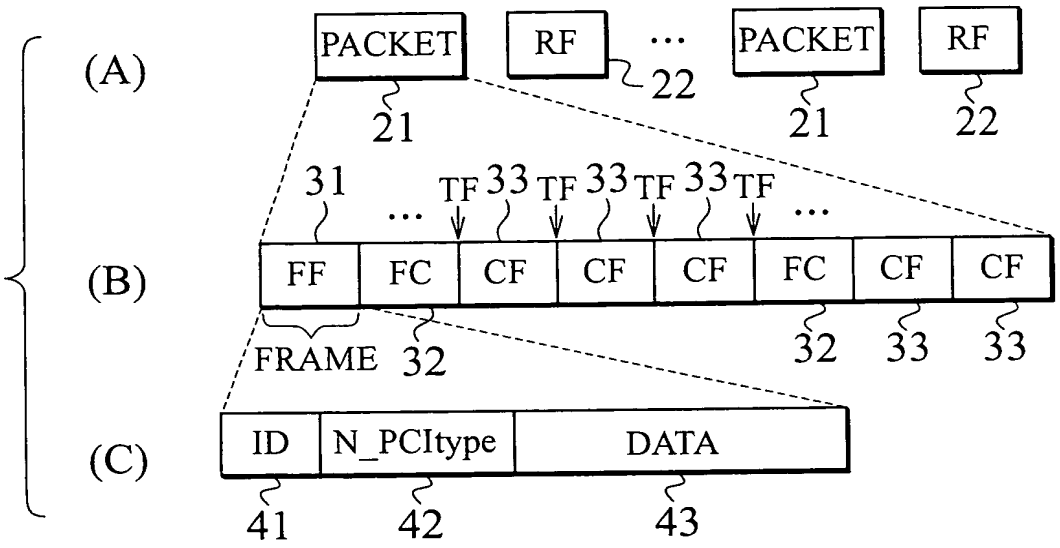


FIG. 4

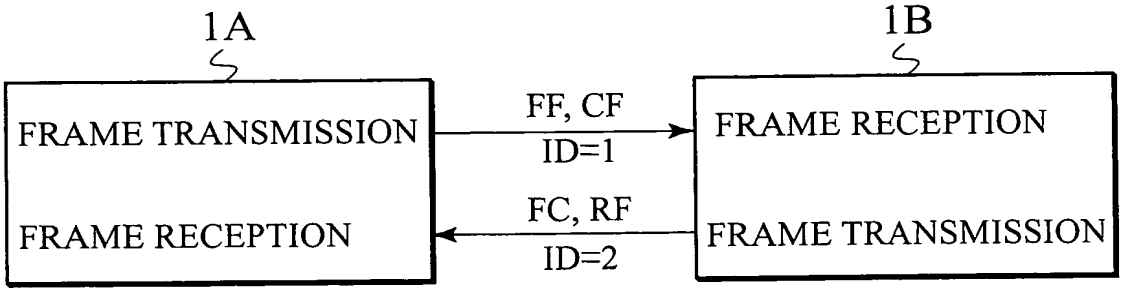


FIG. 5

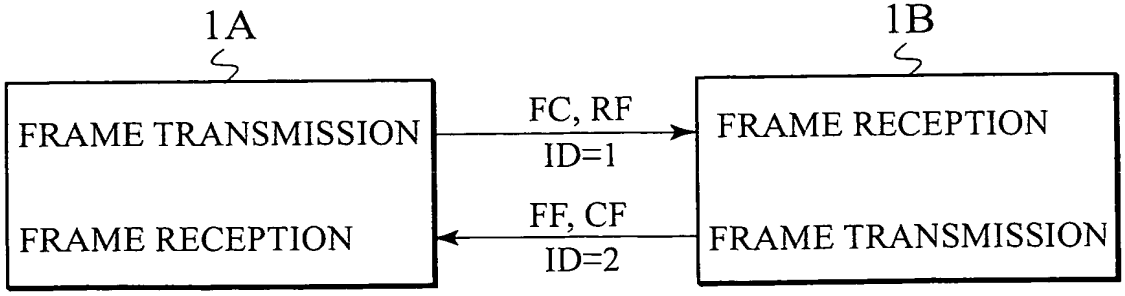


FIG. 6

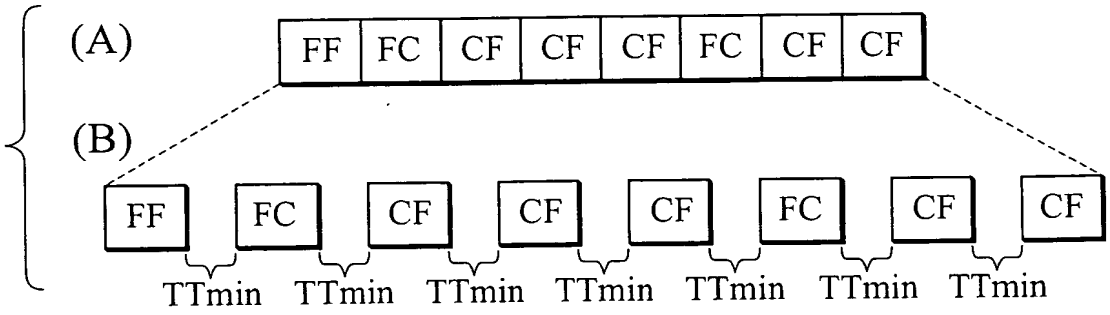


FIG. 7

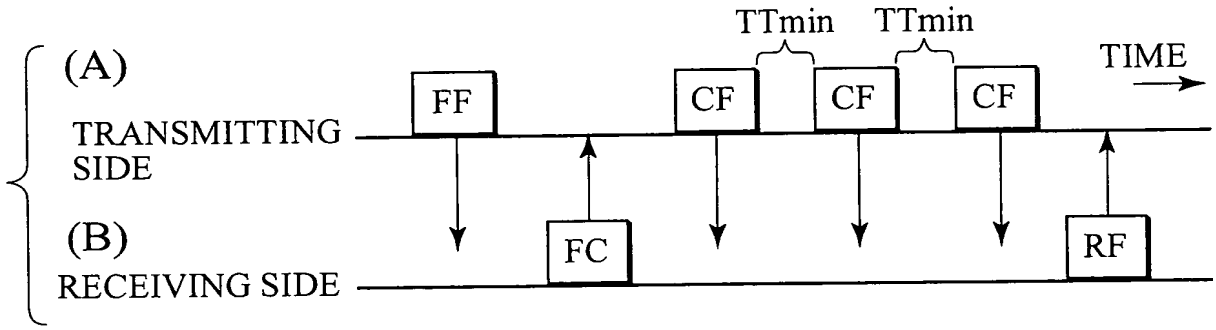


FIG. 8

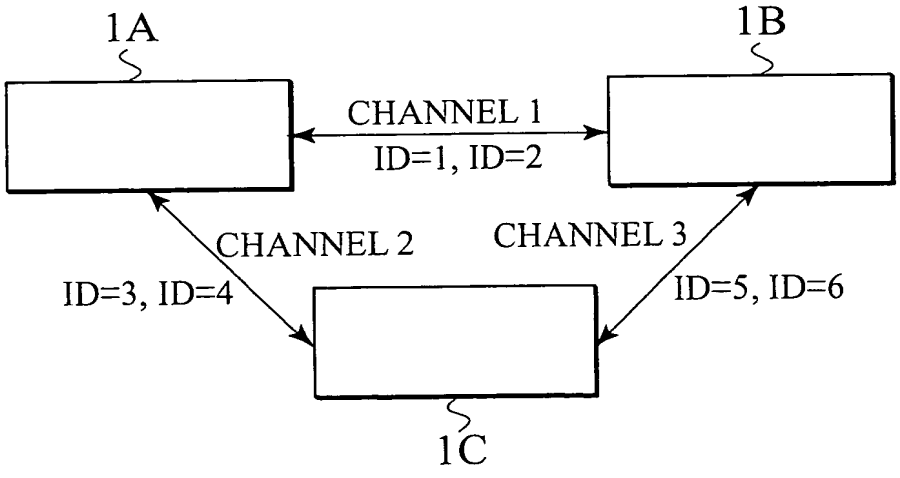


FIG. 9

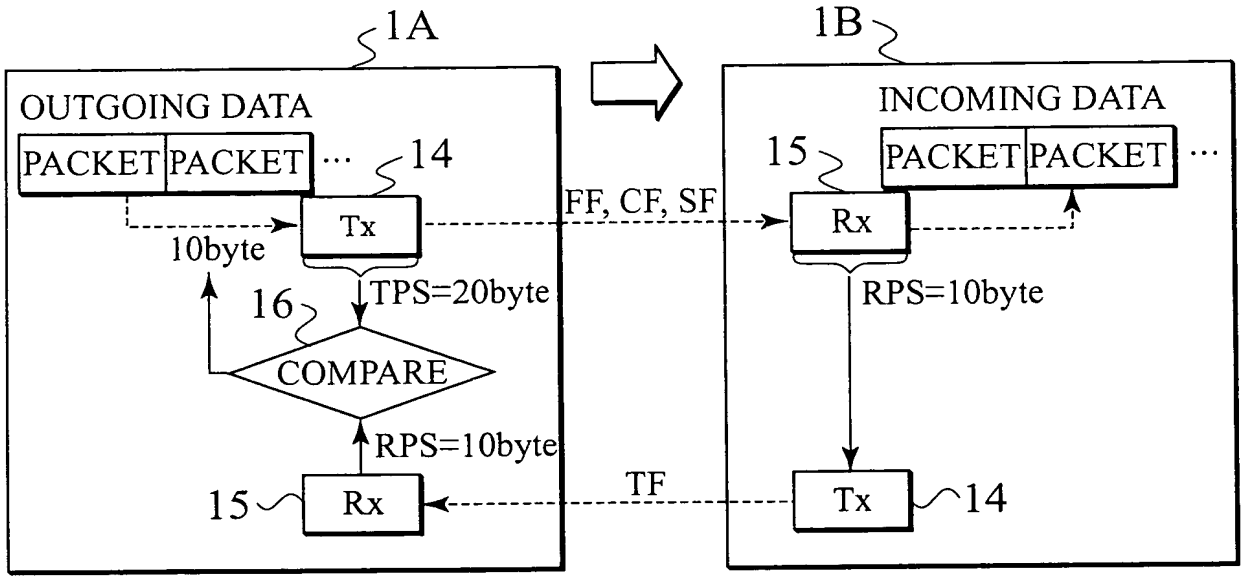

1A
1B
OUTGOING DATA
PACKET
PACKET
14
Tx
10byte
TPS=20byte
16
COMPARE
RPS=10byte
15
Rx
FF, CF, SF
TF
INCOMING DATA
15
PACKET
PACKET
Rx
RPS=10byte
Tx
14

FIG. 10

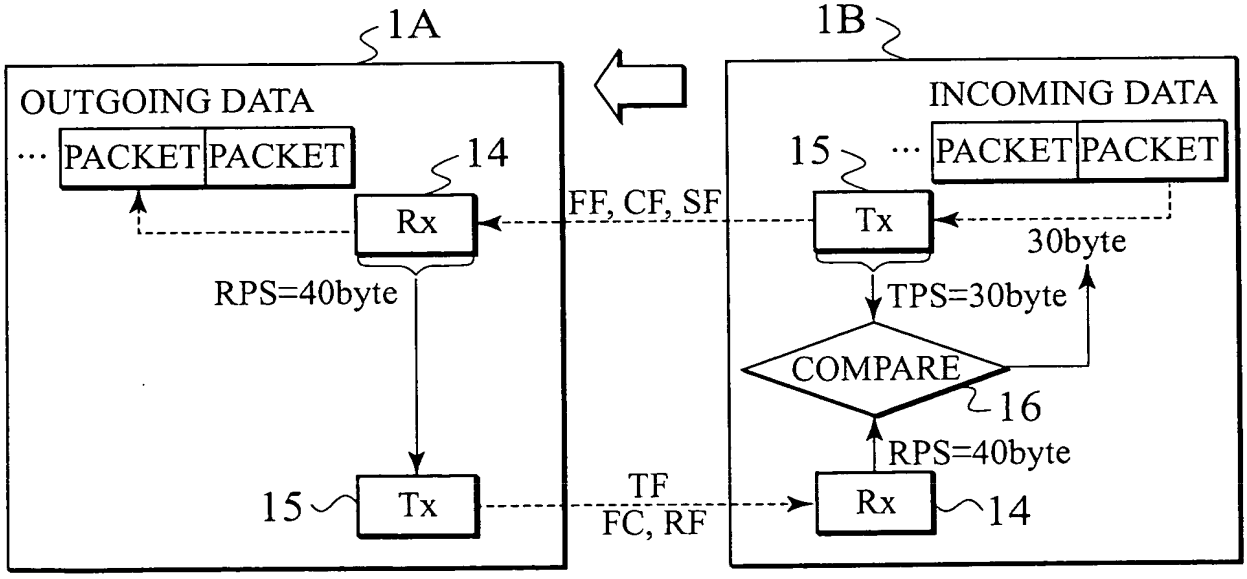
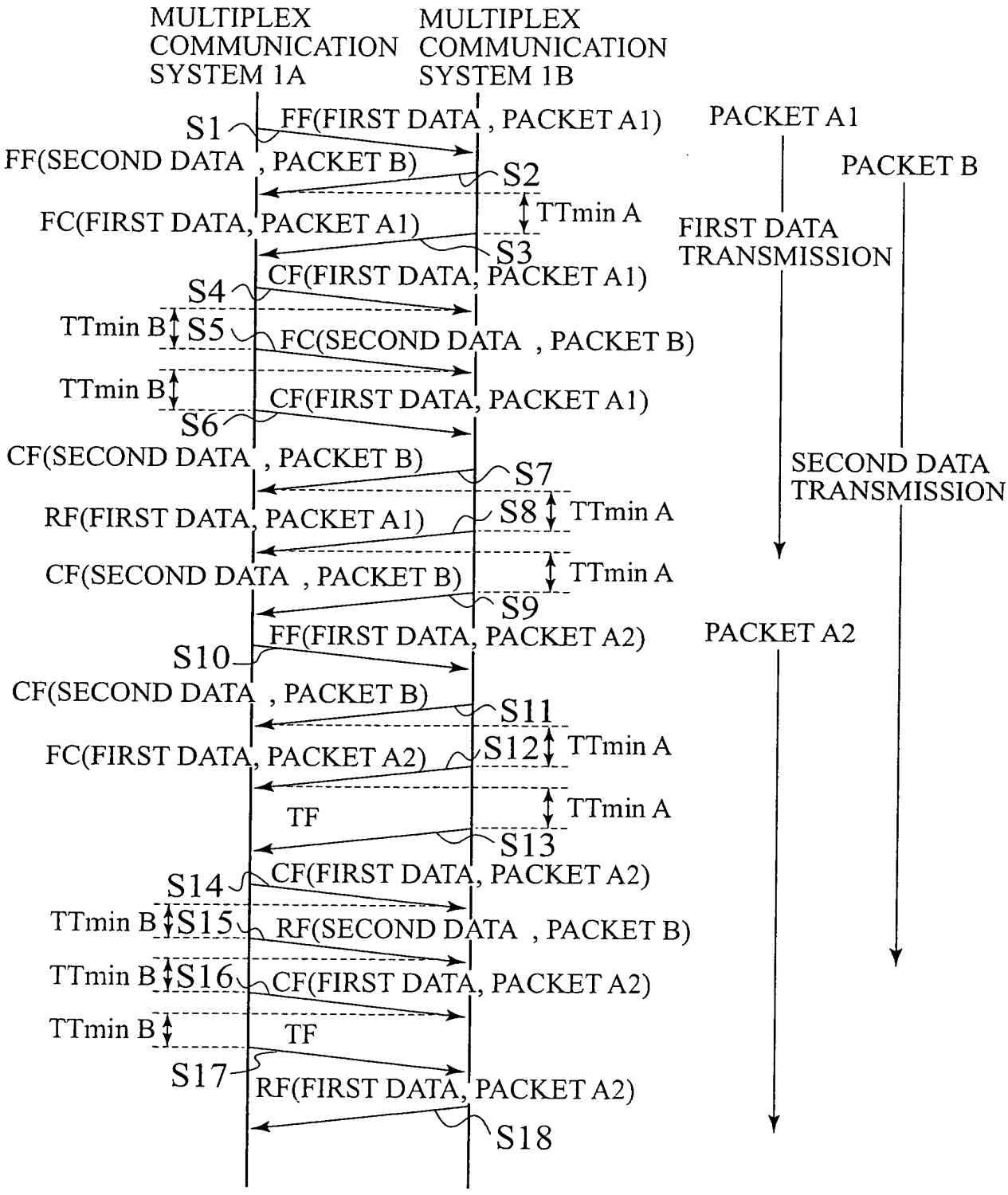

1A
1B
OUTGOING DATA
PACKET
PACKET
14
Rx
RPS=40byte
15
Tx
FF, CF, SF
TF
FC, RF
INCOMING DATA
15
PACKET
PACKET
Tx
30byte
TPS=30byte
COMPARE
16
RPS=40byte
Rx
14

FIG. 11


MULTIPLEX COMMUNICATION SYSTEM 1A
MULTIPLEX COMMUNICATION SYSTEM 1B
S1
FF(FIRST DATA , PACKET A1)
FF(SECOND DATA , PACKET B)
S2
TTmin A
FC(FIRST DATA, PACKET A1)
S3
CF(FIRST DATA, PACKET A1)
S4
TTmin B
S5
FC(SECOND DATA , PACKET B)
TTmin B
CF(FIRST DATA, PACKET A1)
S6
CF(SECOND DATA , PACKET B)
S7
RF(FIRST DATA, PACKET A1)
S8
TTmin A
CF(SECOND DATA , PACKET B)
TTmin A
S9
FF(FIRST DATA, PACKET A2)
S10
CF(SECOND DATA , PACKET B)
S11
FC(FIRST DATA, PACKET A2)
S12
TTmin A
TF
TTmin A
S13
CF(FIRST DATA, PACKET A2)
S14
TTmin B
S15
RF(SECOND DATA , PACKET B)
TTmin B
S16
CF(FIRST DATA, PACKET A2)
TTmin B
TF
S17
RF(FIRST DATA, PACKET A2)
S18
PACKET A1
PACKET B
FIRST DATA TRANSMISSION
SECOND DATA TRANSMISSION
PACKET A2